

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Mill.Moore@VALLEY.NET (Mill Moore)
Subject: [3682] "The Nineties" Newsletter
Message-ID: <280941@hanover.VALLEY.NET>

Can anyone give me some contacts for the editor and / or the publisher of "The Nineties," a newsletter for owners of the MFJ single-band qrp rigs?

Mill Moore, WA1JGK
Hartland, Vt.
mill.moore@valley.net

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: am257@detroit.freenet.org (Tim English)
Subject: [3697] 4 and 7 AH batteries available
Message-ID: <199510022214.SAA23479@detroit.freenet.org>

I work in the Burglar alarm business and have access to 2.5, 4, and 7 AH 12 volt gel cells, new of course in the INTERSTATE brand. Would there be any interest amongst you QRP boys for some of these batteries ? If so I might be able to work out something with the boss and get some of these things at or near our cost. What are they being sold for from other suppliers ? Would appreciate a few prices to see if I can compete with the others and get you fellows some better deals.
I'm not an active QRP'er but keep tabs on whats going on, hi.
Tim, WB80GM
am257@detroit.freenet.org

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Mike Robinson <miker@cc.com>
Subject: [3700] Air Variables
Message-ID: <9510022304.AA07257@voder.nsc.com>

Paul KB8N,

I lost your e-mail-addr. Are you here?

7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB 72"

=====

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Mike J Pulley <Mike_J_Pulley@ccm.ch.intel.com>
Subject: [3675] Attaching drawings scrogs some email readers

Guys,

There is one major problem with attaching drawing files to your internet mail. Some email readers (yes, mine included) don't separate the attached file from the main text. When you attach files, I receive line after line of indecipherable binary gibberish. Hardly efficient use of the available bandwidth.

Might I recommend using the ftp site for drawings? Or fax them to one another? Please.

Regards,

-- Mike Pulley, WB4ZKA
Phoenix, AZ

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: am257@detroit.freenet.org (Tim English)
Subject: [3707] Batteries
Message-ID: <199510030302.XAA11068@detroit.freenet.org>

Well it sure didn't take long to get some responses back on this battery thing. Unfortunately all the prices I was given in the replies are about HALF of my companies COST. So looks like you guys are already getting about the best deals available on the gel cells. In fact I may give my boss this info and let him know they are cheaper sources for our alarm system standby batteries. Had no idea they were that cheap ! Well it was a nice idea anyway... Thanks and happy QRP'ing !
Tim, WB8OGM

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: jaydhall@everest.iccy.com

Subject: [3677] cascade and qrpp

Message-ID: <950ct2.100835mdt.17037@gabriel.iccy.com>

Just to add to the list of people who have not gotten the cascade or the qrpp rag. I know my cascade was one of the last to be ordered. I just was in the whine mode... It is Monday, you know!

Is there an email address for this kind of traffic? Thanks!

Jay D. Hall
jaydhall@iccy.com
WA6MOK

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995

From: jps@kodak.com (John P. Spoonhower)

Subject: [3674] CASCADE parts questions

Message-ID: <9510021531.AA05819@lumi.Kodak.COM>

Guys,

I spent time over the weekend doing the inventory on the parts for my Cascade kit. Like everyone else, I am impressed by the quality of the kit. I have a couple of parts

related questions that perhaps the other list members can help with...here goes:

1) C2 and C4 on the main board are listed as 47 pf. NPO types. All the other NPO caps are disc caps...I have 2 "blue blob" 47 pf. caps in the parts bag, but NO NPO disc caps at 47 pf. Are these "little blue guys" suitable?

2) what's the wattage of resistor D4?

3) on the 75m board C7 has a parts count of 2....there's really only one part C7, right?

4) again on the 75m board I have 2 types on 82 pf. caps available....small tan ones marked "820" and the squarish tan-brown ones with "820 ck05" marked on them. What's appropriate for this board?

have fun it everyone....

72, john, kc2du

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995

From: cteclaw@mailhost.mnsinc.com (Charles Teclaw)

Subject: [3716] Earphones for crystal radios receivers

Message-ID: <199510031346.JAA08902@mailhost.mnsinc.com>

Newcomers may not be aware that the old crystal radio designs were based on use of high impedance headphones (usually about 2k ohms). Headphones sold

today are usually around 8 ohms and are not likely to work well as substitutes. It might be worthwhile acquiring an older pair from a hamfest or flea market to use with your crystal radio.

73 de NT3G

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Tom_Jennings <jennings@eng16.rochny.uspra.abb.com>
Subject: [3687] FOX: First Night Novice Freq
Message-ID: <jennings-9509021900.AA001017524@eng16>

Hi all you Fox hunters!

I will operate on the Novice frequency 7110 kHz from 8 PM until 8:30 PM EDT.

Good Luck!!

TJ

Thomas J. Jennings | Tel: (716) 273 7071
Senior Engineer | Fax: (716) 273 7262
ABB Industrial Systems Inc. |
Post Office Box 22685 |
Rochester, New York 14692-2685

Internet: jennings@jennings.rochny.uspra.abb.com

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: dgf@netcom.com (David Feldman)
Subject: [3709] IC-706 on QRP
Message-ID: <199510030348.UAA28682@netcom14.netcom.com>

An Icom IC-706 is sitting on my workbench, connected to a set of Gel-Cells. Made a few measurements that I thought would be of interest to QRPers.

First, you can adjust the transmit power of the 706 easily from the front panel. It is a _continuous_ power adjustment, not 10 steps as implied in the manual, however, you need a wattmeter to get the adjustment accurate (the front panel indicates L 2 3 4 5 6 7 8 9 H, and is only a very rough approximation).

Minimum power appears to be around a watt or so (I didn't check closely). I was able to set transmit power to 5 watts as measured on a Bird 43. From 80 thru 15 meters it held power quite close to 5 watts; 10M was about 4.5 watts (all CW, key down, into a 50 ohm load). Interesting thing is that SWR foldback occurs even at the reduced output power level when into a higher SWR.

I connected an ammeter to look at DC power consumption. All of this is at 12.6 volts from Gel Cells:

Unit turned off (!)	4 mA
Turned on, receive, quiet	1570 mA
Turned on, receive, loud	1650 mA
Transmit, PTT engaged, key up	3700 mA
Transmit, key down (5W out)	6900 mA

By my calculation, overall DC->RF conversion efficiency is 5.75%. Incremental conversion (key up/key down delta) is 12.4%. Maybe it's not a fan that is at work (continuously) inside, but a dynamotor.

As some other fine subscriber to this list once said of another radio, "the radio might be portable, but the car battery you have to carry isn't!"

The Norcal 40A is definately safe to stay!

One other comment/complaint: even tho a narrow SSB filter (1.8 kHz) will be available, and 250/500 Hz CW filters are/will be available, you can only put in ONE optional filter. This bugs me bigtime! It seems that there is enough room inside for both filters, so I don't know what they were drinking when they made this design "decision". Still it seems the filter is a plug-in (from the top) rather than solder in, so maybe just change out the filter occasionally to specialize in CW or SSB.

Oh and one other thing - if you look closely at the front panel display the maximum frequency possible for the DISPLAY (not the rig) is 1999.999 MHz. Unfortunately, no transverter connect. Oh well...

Next.....?

73 Dave WB0GAZ dgf@netcom.com

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: swgate3!STLMAIL7!MK2331@Lehigh.EDU
Subject: [3689] In Houston...
Message-ID: <m0szqJW-0000dnC@swgate3>

Microsoft Mail v3.0 IPM.Microsoft Mail.Note
From: KASTIGAR, MATTHEW (MM)
Subject: In Houston...
From: qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Marshall Emm <75230.1405@compuserve.com>
Subject: [3683] JessQRP's Loop Drawing Message
Message-ID: <951002171519_75230.1405_HHB28-3@CompuServe.COM>

Hello, Jess--

Re your loop antenna drawing, I don't have AOL's file transfer program, OR Windows Paintbrush. Inclusion of the file with your message caused me a bunch of problems.

In future, could you offer to mail it direct to those who want it and can use it?

73
Marshall

From: qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: n1ist@netcom.com (Michael L. Ardai)
Subject: [3708] n1ist's Cascade erata #4
Message-ID: <199510030337.UAA00452@netcom2.netcom.com>

The end is near! Finished step 8; waiting for the paint to dry on the cabinet so I can drill it for the final.

Section 8:

D12's leads are too thick for it's pads; use some resistor leads to connect it.
R39 is the resistor whose part designator is hidden under the angle bracket
R45 needs its legs bent a bit to fit; make sure it will clear R41
Also install R80, R81 (two 1 ohm resistors in the unlabeled outlines over by Q7
Also install C100 and R35
R40 is the 150 ohm 1 watt resistor (not 180 ohms listed in the cross ref). Use 1/4 watt resistor leads to connect it to the board since its legs are too thick for the PTHs
Wire is not specified for L4 and L5 - I think it should be #26

At this point, all parts behind the band module should be installed except Q7 (installed in Section 9) and C28 (not used).

Extra parts:

There seem to be a few spares (sorry Dave, no extra variable caps).
I ended up with the following:

Resistors: 2x 4K7, 1K, 2x 10K, 180ohm, 10K trimpot, 50ohm trimpot
Caps: 22uF, 2.2uF 50V aluminum lytic, 150pF CK05, 2x 10pF, 3x 220pF
2x 120pF 2x 150pF 4x 820pF 0.1uF
Misc: 2.5mm jack (doesn't fit board), 1N914, 10uH (brn blk brn gld)
(I can never remember the color code for inductors)

I haven't checked out the hardware yet...

Oddity: Adjusting R7 (balance) control seems to have no effect. I read
1.26 volts on pins 1 and 2 regardless of R7's position. Looking
with a scope shows reasonable signals on both pin 1 and 2. Not
quite sure what this means yet.

72 to all.
/mike

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: RobCap@aol.com
Subject: [3715] Need Help with Cascade
Message-ID: <951003093913_70479317@mail02.mail.aol.com>

Hi Folks-

I am having trouble finding a problem with my Cascade and would appreciate
any help or suggestions. Please send E-mail directly to me at:
Robcap@AOL.com

The Cascade is completed through step six. With the audio pot turned very
low, so that signals are barely audible, I am able to get good sounding SSB.
The problem is that with the audio pot turned up to a normal level, signals
come in overdriven and scratchy to the point where they are not
understandable. Also, the audio occasionally goes into a runaway motorboat
oscillation sound.

Clues:

When building step 4, the Audio Amp, I was unable to get the PTT function to
work as stated in the manual even after installing Q16, R73, and R68. I also
noticed the tendency to runaway motorboat sound if I touched pin 8 of U1 with
a voltmeter. So I have been focusing on the Audio Amp as the most likely
problem. The problem might also be in step 5.

The PTT function began working, however, after step 5 was completed.

I went through the voltage chart, and found all active components had voltages that were within normal tolerance, with one exception. Pin 1 of U5 was reading only 0.6 volts instead of the normal 1.42 volts.

I used the 1K resistor for R63 as called for in the Norcal revisions.

R25 is the original value of 2.2 ohms, rather than 22 ohms as suggested in the revisions. I'll swap it tonight.

C12 has the positive side going to pin 7 of U3 as stated in the erratta.

All components below the band module have been installed, except the following: U2, U3, Q12, R8, R13.

Wire W1 W2 is jumpered at the band module, but is not jumpered at the RF pot.

The VF0 and BF0 appear to be working perfectly, and are aligned.

Any suggestions? I would appreciate any thoughts that you might have.

73,

Rob, WA3ULH

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: METEVIA@homer.yankee.com (W. J. Metevia)
Subject: [3713] NH6IL Min Parts Tx
Message-ID: <Q41D18A9@ex2217.yankee.com>

Good morning...

Built the 80 Meter (Low Parts) Transmitter, designed by Jeff NH6IL, last nite, eliminating one of the parts. Used a Radio Shack 100 micro henry rf choke for the LC circuit. I expected (from a simple calc) that it might be reasonably close to self resonant on 80.

Since I wanted to run from a 9v battery, I used a little larger resistor value (470k). Used a generic PNP also from RS, \$2.40 for a bunch. Being willing to live without peace of mind, I did not add the low pass filter :-). Have not made any measurements but seems comparable to the PIXIE2 output. Keys clean, sounds good.

I think I should be able to push it to half a watt or so with a little

experimenting. Six parts, not counting battery, key, and antenna!

Neat TX. Thanks Jeff!

-73-

Bill k8ati/1

From qrp-l@lehigh.edu Tue Oct 3 10:27:00 1995
From: washpenn!swider@vax.cs.pitt.edu
Subject: [3692] Novice Foxhunt
Message-ID: <199510021953.PAA25620@vax.cs.pitt.edu>

> PLEASE let us know if you can and will be working the Novice freq. I hope
>most of you can. There's at least 39 Novice/Tech+ QRP-L subscribers, and
>this activity is a great incentive to get us on the air. I know I'm scurrying
>around trying to get the antenna up, make a homebrew key, (donation of a
>straight key will gratefully accepted :-)) and checking to make sure my newly
>constructed OHR Explorer is transmitting/receiving on close to the same freq
>and somewhere within the novice band :-)) Below I've appended a list of all
>the Novice/Tech+ subscribers, at least all the ones I was able to extract from
>the recipients list with an automated procedure. Sorry if I missed anyone...
>
>73
>Jim N3VXI

Jim:

Good thoughts. I think the main problem is that some of the fox operators don't have rigs that will cover the novice freq. Perhaps on the nights that the official fox can't work the novice freq, we ought to have our own hunt to give us some air time.

I'd be happy to send you a key, just e-mail me an address...

Rob
KB3BFM
washpenn!swider@vax.cs.pitt.edu

From qrp-l@lehigh.edu Tue Oct 3 10:27:00 1995
From: Mike Robinson <miker@cc.com>
Subject: [3696] OHR400

Message-ID: <9510022111.AA02459@voder.nsc.com>

I'm building my OHR400. I'm also keeping a written log and will publish it upon completion.

On the receiver board, there is a cap known as C250. It's a .001uF mono. It's inventoried with C214 but there is never an installation direction.

C214 is directed to be installed but not C250. There is a place for it on the board and the silk screen has it as C250.

Does anyone know what's correct?

I'm trying to be diligently literal while following the instructions. So far, it's paid off.

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=====
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB 72"
=====
Take a look at:
http://www.acs.oakland.edu/oak/SimTel/msdos/hamradio.html
=====
```

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: swgate3!STLMAIL7!MK2331@Lehigh.EDU
Subject: [3717] Pixie-2 - want information
Message-ID: <m0t07iD-0000dMC@swgate3>

Microsoft Mail v3.0 IPM.Microsoft Mail.Note
From: KASTIGAR, MATTHEW (MM)
Subject: Pixie-2 - want information
From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Wynn C C <wyn@stc06.ctd.ornl.gov>
Subject: [3678] QRP ARCI BoD Elections coming soon
Message-ID: <Pine.OSF.3.91.951002123543.5751A-1000000@stc06.ctd.ornl.gov>

Subject: QRP ARCI BoD elections soon

On 2 Oct 1995 00:20:02 EDT Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski) writes:

> Anyone interested in running
>should send their self-nominations as detailed in the issue. (By the
>way, you don't sit around and wait for someone to nominate
>you--"nomination" is a misnomer, as it's actually more along the
>lines of tossing your hat in the ring.)

> just
>toss your hat in the ring if interested, and the details will be
>worked out later :-)

On 2 Oct 1995 10:37:18 EDT From: Monte Stark <ku7y@sage.dri.edu> writes:

>election for the BoD. In that notice it states that the
>bylaws call for the president to form a nominating committee
>that will nominate the candidates for the BoD.

Sorry I don't have a copy of the Oct ARCI QRP Journal. Anyway
at first glance these two posts do not seem to be harmonious. In my
experience, a nominating committee presents a slate of candidates for
the subject position(s) to be voted on by the general membership. It
is the nominating committee that communicates and negotiates with
potential candidates, does the screening, obtains commitments, etc.
Is this the process intended for the QRP ARCI BoD Elections? Will
the general membership be given a chance to vote on anything? Will
the general membership be given a slate of two or more candidates to
vote on, or will the vote just be for approving a pre-selection by the
nominating committee? Who are the members of the nominating committee?

72/73,
Clay N4AOX
wyn@ornl.gov

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Allen Jones <ajones@niiia.net>
Subject: [3672] QRP+ Impressions
Message-ID: <199510021500.KAA26921@silver.niiia.net>

Got my letter fom Index over the weekend inviting me to order as I had shown
interest in the group purchase.

The chatter regarding the last purchase seems to have died down. I'd be
interested in hearing from any of you who've been using the QRP+ for a
while. Are you still happy with it? If you had it to do over would you?

Please reply direct to me.

Thanks & 72/73 de Allen, K9DZE

=====
Allen Jones K9DZE ajones@niiia.net
Michigan City, Indiana EN61nq
ARCI #8797 G-QRP #8812 NorCal #1061
SWOT #1368 SMIRK #5403
=====

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: N8CQA@aol.com
Subject: [3702] QRP-ARCI BoD Nominations
Message-ID: <951002203437_34851322@mail04.mail.aol.com>

Attention, all QRP-ARCI members (only), interested in making nominations for election to the Board of Directors, for the 01/96 balloting. I am assembling (not done yet) a four person nominating committee (per the by-laws), to approve candidates for placement on the ballot (the by-laws are not specific beyond the appointment of a committee).

Since there have been no elections for several years, we are accepting nominations for the nomination of another person or yourself. The terms of office (for this election only) are 2 members for 2 years, 2 members for 4 years and 2 members for 6 years. This will allow us to hold subsequent elections every 2 years for 2 seats and rotate BoD members in a logical fashion.

The committee (none of whom are candidates) will decide, based on the resumes presented, which candidates are best suited to appear on the ballot (there are no max/min numbers currently). Please send all materials to me and I will forward them to the committee members. I hope to have the committee finalized by the end of this week (10/07/95).

If you are interested in running or nominating someone (please obtain their agreement first), let me know ASAP. We will require a resume from the nominee. Please assume that any previous materials you may have submitted do not exist.

Please send any questions to me via private email.

Thanks 72/73 Buck N8CQA, President QRP-ARCI

N8CQA@aol.com, am441@detroit.freenet.org
Home (810)364-9640 Fax (810)364-8179

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: rohrwerk@netcom.com (John Seboldt)
Subject: [3688] R2/T2 Station home page
Message-ID: <199510021824.LAA24249@netcom19.netcom.com>

Thanks to Jim, N3VXI, the kinks are working out of my Web page about my R2/T2 setup. The page is an index to files in various formats documenting the use of these great modules in my homebrew HF station:

<http://www.lehigh.edu/lists/qrp-1/k0jd/index.html>

Check it out!

: John Seboldt	rohrwerk@netcom.com	/	I am Bach of Borg...
: Amateur radio	K0JD...	/	yo r style will be
: Church of the Annunciation,		/	assimilated.
: Minneapolis		/	

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: David Adams <dave@flowserver.stem.com>
Subject: [3695] Stupidity and me...a case study
Message-ID: <9510022045.AA13788@flowserver.stem.com>

So...I did something I should have known would be problematic, but I'm hoping you all have a solution that will work.

After reading all the notes on the radio shack 1w audio amp, I went out and bought a couple. I have an mfj filter that filters well, but has little or no audio output. More importantly, the output on my explorer is not what I would hope....so....

I whip together an amp, drill 2 holes in the explorer chassis and mount that puppy...close up the case and give her a go...works...I decide to transmit...STATIC...problem is that rf is getting into the amp...this doesn't effect performance, but makes for a god awful sidetone...I have the amp sharing the chassis ground, but it doesn't help...anyone do this and shield it effectively, or am I just SOL?

Also, as far as upping the audio level, it doesn't seem to be much of an improvement...and if I turn up the variable resister to get more volume, all I get is the aver-driven, overbassed pulse....hurts the first time you do it...

73 de dave, n9uxu

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Harry_Chase@smtpgw.windata.com (Harry Chase)
Subject: [3684] thanks
Message-ID: <9509028126.AA812666516@smtpgw.windata.com>

Thanks to all who replied to my question about what kind of paint is best to use on aluminum panels. The consensus was that Krylon primer OR any zinc chromate primer is the way to start, followed by painting. I got a *lot* of replies on this one!

Harry
WA1VVH

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: af514@detroit.freenet.org (Hank Kohl)
Subject: [3704] The Loop Antenna???? ??
Message-ID: <199510030101.VAA03719@detroit.freenet.org>

Ya know I've gotten over missing the Olga stuff. And now there is a Dayton-WX list, so unless I subscribe to it, I will have to depend on the weather channel or HF radio to get the weather reports.

Now could we have a list for the files? Like I said, I got over missing the few lines of text that the Olga stuff took up. And the Dayton WX reports. But if I were to go back over the qrp-1 archives I really don't think that they were any where near as long as the 680+ lines that that "slasher loop antenna" took.

And what's worse - I could read the Olga and Dayton WX stuff! I held the Loop antenna file up to the light. Right side up. Upside down. Backwards. Treated it like one of those 3-D things you get at the mall. Showed it to my 3 year old granddaughter (she laughed a lot, but then she laughs at the beast in Beauty and The Beast!). I

still don't see no steenkin loop in that file.

Am I missing something here?

73 Hank K8DD

```
--  
/*  
/*     email     af514@detroit.freenet.org  
/*     call     k8dd     hank     port huron, mi  
/*
```

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: "ALAN PIKE" <pike.alan@a1.sales.ako.mts.dec.com>
Subject: [3690] TT SCOUT PROBLEM
1
Message-ID: <81829120015991/590780@SALES>

[This message is converted from WPS-PLUS to ASCII]

Need some info from the bevy of SCOUT owners out there...

I was patrolling 17 meters looking for some interesting dx this weekend...cw of course..and heard an 8S3...keyed the SCOUT to call him and got his call, my call and then the transmitter went dead. I looked at the readout and it said "25." The reciever still worked but as I tuned back and forth the readout still said "25." I flipped the power switch and the readout restored to the correct frequency..I went to call the station again, no transmit and "25" was on the readout again.

I checked the manual and could not find any reference to this error message. Anybody got any ideas??? Insufficient voltage??? Overheated final??? Excessive SWR??? I am using the little switching supply that TT sells with the rig.

Any info would be appreciated. This is making my Argo 509 look pretty good right now.

72

Alan
nt1v
QRP ARCI #3788
NE QRP # 41

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: groverc@gvgadg.gvg.TEK.COM (Grover Cleveland)
Subject: [3694] W9GR's e-mail address
Message-ID: <9510022047.AA18514@gvgadg.gvg.tek.com>

For those who may have been trying to reach W9GR of DSP fame,
he no longer works for Grass Valley Group and therefore his e-mail is bouncing.

Try this address: "w9gr@psyber.com" - yes that's "psyber"!

73

Grover WT6P

```
*****
* Phillip D. "Grover" Cleveland      Internet: grover.cleveland@tek.com *
* Sr. Training Engineer              or:      groverc@eworld.com *
* The Grass Valley Group Inc.        Compuserve: 71213,2741 *
* 13024 Bitney Springs Rd. M/S 3-B   phone: 916-478-3153 *
* Nevada City, CA 95959              fax: 916-478-3831 *
*                                   _ _ ... _ _ _ _ _ *
*                                   "Trekking Along the Information Goat Path" *
*****
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From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: dsa@apollo.hp.com
Subject: [3686] Wire antenna help...?
Message-ID: <199510021817.0AA47325@nss2.CC.Lehigh.EDU>

Here's one for you wire antenna experts...

I live in one of those neighborhoods where the covenants are extreme
and enforced. ie. NO: antennas, clotheslines, boats, campers, etc.
It's actually worse than that, you MUST keep your garage door closed
at all times, unless you are moving your vehicle in/out. You MUST

get approval from the association committee before you can change the color of the paint (even trim) of your house or to plant a tree on your property. Your lawn must be mowed and weed free at all times, no outside pets, and so on and so on. The neighborhood is policed by anal-retentive, opulent, pompous, aged, busybodies whose lives have no purpose other than to bag people for minor infractions. Get the picture? So, whatever I use will have to be unnoticeable, or we'll face stiff fines. Now before anybody starts lecturing me on agreeing to the covenants and moving into a place like this, I want to say that I did NOT choose this neighborhood. My wife lived here before we were married, and moving away at this time is not practical.

Back to my situation. There are no trees mature enough for me to run a long wire to, and my shack will be in the basement. I think the best I can do is run something peak to peak around the roof of the house. The house is of contemporary architecture with lots of dormers, turrets, etc. so the wire won't have to run directly on the roof. I must also use wire capable of withstanding the 100+ mph gusts we're prone to here in Colorado's mountain foothills.

My concerns are feeding the antenna wire from below ground level. I would think that I'd need to use some type of feedline as opposed to feeding it directly from the tuner. The feed will have to pass thru an aluminum framed window below ground level, up 5' thru a window well, horizontally near the ground, then up the corner of the house near a gutter downspout, under the 20' rain gutter then on to the roof. I think my SWR will be off the scale unless I'm using coax. Speaking of SWR, I am also concerned with what running the wire so close to the roof (cedar shingles with a zillion staples) will do, AND the house is only about 25' high so my angle of radiation (assuming there is any given the collective losses) will be quite high, especially for the 40m band I wish to work. The house has no attic, (cathedral ceilings throughout) so hiding something in there is also out. None of the wire antenna books I've read help in my given situation. I haven't room for a dipole and hiding the coax will be nearly impossible. Loading up the gutters may be an option, but probably no more effecient than loading a coat hanger.

Am I SOL here or what?

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: iffo447@ccwf.cc.utexas.edu
Subject: [3710] WTB: Kenwood TSs-130V
Message-ID: <Pine.SUN.3.91.951002230249.5153B-1000000@foghorn.cc.utexas.edu>

I am looking to buy a kenwood TS-130V QRP rig. I am not a member of this list but a friend told me you guys might be able to help me out. Please email me at iffo447@ccwf.cc.utexas.edu. Any help would be appreciated.

73,

Bob Logan, NZ5A

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995

From: k2pj@sccoast.net (Tom Palmieri K2PJ)

Subject: [3699] WTB: QRP Rig

Message-ID: <m0sztYw-0005D0C@ns1.sccoast.net>

Friends,

I originally posted this on rec.radio.swap. A fellow amateur suggested I send the message to qrp-1@lehigh.edu.

So.....here goes..

73

Tom

PS: I also have a mint kenwood th315a 220 Mhz ht to trade, if interested.

>

>

>

>Wanted: HF QRP Rig, like the Heath HW series. Must be in good working order, clean, and have documentation.

>

>

>Please respond via E-mail with type, condition and price.

>

>

>

>73

>

>Tom

>k2pj@sccoast.net

>
>

K2PJ Amateur Radio
Surfside Beach, SC

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: mvjif@mvubr.att.com (James M Fitton 508 960 2577)
Subject: [3706] Xtal radio
Message-ID: <9510030212.AA17352@ig1.att.att.com>

I went to a little WWII war museum in Calais (France) a few years ago and saw some vinyl phonograph records with 2 inch diam. holes cut in them.

A GI had taken the 2 inch diam discs (from the vinyl records), heated them to make them soft, and pushed a broom handle into the heated disc.

After cooling and trimming, the result was a little black vinyl cup. He then wound an electro magnet with wire taken from a doorbell or motor, and a nail, and placed them into the cup.

He then cut or filed a round disc from a tin can lid to fit over the top of the tiny cup, and just above the electro magnet.....

Viola ! A clandestine earphone to be used with the razorblade radio..... They called it a "Foxhole Radio".

Some other smart GI POW made a transmitting and receiving set from tubes from a discarded phonograph.

Extremely interesting.....

I wanna go back to that museum again.....

When I was 10, I plugged a crystal set kit into the 110V mains and blew every fuse in the apartment house. (No dad to advise me)
As a 13 year old, I found that many rocks, minerals, and "blue" type razor blades would function well as a cats whisker detector.

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Bensondj@aol.com
Subject: [3676] Re: 40-40 "QRO"
Message-ID: <951002123040_34443521@emout06.mail.aol.com>

Bruce Robertson writes:

>>I've had some interesting results trying to squeak a few more watts out of the NE40-40

>>My first attempt comprised replacing the final xistor with an MRF237 and installing a bifilar transformer in place of the final's choke. The result was 2-3 watts out but horrible current consumption and a very hot transistor. Furthermore, when the output moved up to 3 watts, the sidetone eventually disappeared. Any ideas why this might be?

Yep. Although increasing the output power on the 40-40 sounds like such a great idea, one thing the design doesn't have is gobs of spare drive capability. To get enough drive to go up to 3W or more, it's necessary to crank the gain pot full clockwise, at which point the driver stage (Q5) may go into oscillation. Your final transistor is running hot because this drive condition provides **too much** drive. In addition, the sidetone disappears because the TX frequency is no longer 800 Hz offset from receive zero-beat but off in the weeds somewhere. (The frequency is actually set primarily by the 2nd TX bandpass filter tank circuit in this spurious mode.

I'd suggest a healthy dose of caution for folks trying to wring lots more power out of the 40-40. I got it to the 2.8 x 4" size it's currently with some "shoehorning" and there are areas with room for improvement (like going double-sided and improving the grounding.) One quick fix I'd suggest is the MMIC mod from the June/July issue of 72, which adds another 12-13 dB of drive gain and stabilizes the chain by reducing the impedances through the TX Bandpass filter. It also allows broader TX-frequency coverage by reducing the Bandpass filter Qs to reasonable values. This circuit appears in the new SWL transceiver- getting 3W on 20M with no signs of instability. Send me an SASE if you'd like a copy of the short article.

72/73, Dave

Dave Benson, NN1G
80 East Robbins Ave.
Newington CT 06111

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Wynn C C <wyn@stc06.ctd.ornl.gov>
Subject: [3679] Re: Attaching drawings scrogs some email readers
Message-ID: <Pine.OSF.3.91.951002124244.5751C-100000@stc06.ctd.ornl.gov>

Mine too: a surprise package of 700 lines of garbage in my reader this morning. Nice way to start the day.;-)

72/73,
Clay N4AOX
wyn@ornl.gov

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Michael D Wyman <Michael_D_Wyman@ccm.ch.intel.com>
Subject: [3673] Re: Cascade Urgent Notice
Message-ID: <951002071603_2@ccm.hf.intel.com>

Text item:

Doug,

Sorry I sent this over the net but don't have your E mail address. I am the one who has the extra tuning capacitor for the cascade. Do you want me to send it to someone? Please let me know. . .

My E mail address is Michael_D_Wyman@ccm.hf.intel.com

phone number is (602) 554-8821

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: weinfurtner@ouvaxa.cats.ohiou.edu (Greg Weinfurtner)
Subject: [3718] Re: Earphones for xtal rcvrs
Message-ID: <v01510100ac96f2a012c1@[132.235.72.11]>

Gang,

I built a xtal set a couple of years ago to try and get my daughters interested in radio... (some success...now they have CD boomboxes!)

I didn't have a crystal headset, so I used an audio transformer with a high impedance (1000 ohms er so, not sure...) primary feeding an 8 ohm secondary, where I hooked up a set of my 8 ohm headsets. I could hear the local stations just fine... don't know if the crystal headsets would have been better, didn't have any to compare results. But, if you can't find any crystal headsets give this a try!

73 de

```
*****
*      NN      N SSSSS 888888 00000   Greg Weinfurtner AEE BSS *
*      N N      N S      8      8 0 0   Electronic Design Splst *
*      N N      N SSSSS 888888 0 0      Ohio University Athens *
*      N      N N      S 8      8 0 0      *
*      N      NN SSSSS 888888 00000      *
*                                          Canst thou send lightnings *
*      Amateur Radio NS80                that they may go and say *
*                                          unto thee, 'Here we are'? *
*      weinfurtner@ouvaxa.cats.ohiou.edu   Job 38:35 *
*****
```

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [3685] Re: FOX: First Week
Message-ID: <95Oct2.140024edt.4268-3+10@hooch.CC.Lehigh.EDU>

Attention all foxes!

> Look for them around 7.040 MHz during these time periods. Times
> are local to their timezone. If they can work Novice freqs
> they will post time they will be there. It's their option.

PLEASE let us know if you can and will be working the Novice freq. I hope

most of you can. There's at least 39 Novice/Tech+ QRP-L subscribers, and this activity is a great incentive to get us on the air. I know I'm scurrying around trying to get the antenna up, make a homebrew key, (donation of a straight key will gratefully accepted :-)) and checking to make sure my newly constructed OHR Explorer is transmitting/receiving on close to the same freq and somewhere within the novice band :-)) Below I've appended a list of all the Novice/Tech+ subscribers, at least all the ones I was able to extract from the recipients list with an automated procedure. Sorry if I missed anyone...

73

Jim N3VXI

JAYKUMAR@CRYPT.ERIE.GE.COM	Jay KB3BGV
CLATON.CADMUS@HAMLINK.MN.ORG	Claton Cadmus KA0GKC
JFURMAN@STRATA.COM	Jeff Furman KD6MNP
RAYMOND_GRETLEIN@MI.SPARTA.COM	Ray Gretlein KE6TYH
KAMAUELA@EWorld.COM	Mason Meek KE6IYU
COSGOOD@TSQUARE.COM	Chris Osgood KD4FNB
TOM@TOMBO.MICROSERVE.COM	Thomas J. Bogusko WB3FYU
72507.235@COMPUSERVE.COM	Rick McNelly KE4IZH
NSKOUSEN@SCIEN TECH.COM	Niel Skousen WA7SSA
SHRADER@UNIX.SRI.COM	Eric J. Shrader KC6SPN
PEA@WRI.COM	Bruce Pea N9WKE
HGS@WDL.LORAL.COM	Harry Salvini KB6VMQ
SAPPLEN@PCOCD2.INTEL.COM	Steven Applen kc6afk
ELEKKTRON1@AOL.COM	Gary Crosland KC5FDQ
AJACK28865@AOL.COM	TATE JACKSON N3BXZ
BCDLR@AOL.COM	Dan Reynolds KB9JLO
CHIM@GWL.COM	Myron China KB0LMQ
TIMOTHY.PARKER@MIXCOM.COM	Timothy Parker KB9KIT
ROGER.PEASE@ENG.SUN.COM	Roger Pease KE6PPI
RIYADTH@HPBS3929.BOI.HP.COM	Riyadth Al-Kazily KB7YWE
BRIANM@BOI.HP.COM	Brian Mahaffy N6UGP
BRIAN@NDS.COM	Brian Dockter KC7JZL
RHAYNES@METRONET.COM	Richard Haynes N5QXF
N9SSG@XNET.COM	David Yanke N9SSG
NORRIS@NPR.LEGENT.COM	j. m. norris n9rkb
SHEARER@EPLRAM.DNET.DUPONT.COM	Stephen Shearer WB3LGC
DJMARK@POWER.ATT.COM	Mark Johnson KB0IHQ
BOB@SNUFFY.PENFIELD.NY.US	Bob Smith N2YRJ
STICKLER@SEMINOLE.IAG.NET	Patrick Stickler KC4YYY
SDB@TYRELL.NET	Steve Brown KB0DHQ
SERONT@SEISM1.ESS.SUNYSB.EDU	Bernard Seront KB2TGH
ALUSCRE@MARCONI.W8UPD.UAKRON.EDU	Anthony Luscre KA8NRC
BARISH@KUTZTOWN.EDU	Len Barish N2BSC
ABURKE@WEATHER.BROCKPORT.EDU	Andrew Burkhartzmeyer N2TUK
WASHPENN!SWIDER@VAX.CS.PITT.EDU	Rob Swider KB3BFM

RYME@HUSKY.BLOOMU.EDU
SCOTT.13@OSU.EDU
DAVIS@ZERO.SYS.SDL.USU.EDU
LUJCE@HOOCH.CC.LEHIGH.EDU

John Rymell N3PFF
David C. Scott N8XYF
KELBY DAVIS N7QAQ
Jim Eshleman N3VXI

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: bobhigh@primenet.com (Bob Hightower)
Subject: [3705] Re: Loop Antenna
Message-ID: <199510030139.SAA10984@usr2.primenet.com>

Hey, guys...flames off, please. Jess said he didn't know how to do this, and got all kinds of advice from the list, which he tried to follow. Not his fault it didn't work, as it was incomplete. Please, give it a rest, I think we all have learned from this.

73,
Bob Hightower KI7MN NorCal 1228, QRP ARCI 8918

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: joe@westonia.com (Joseph Cooper)
Subject: [3711] Re: Loop Antenna
Message-ID: <m0t06sW-0010H9C@gpu.westonia.com>

>Hey, guys...flames off, please. Jess said he didn't know how to do this, and
>got all kinds of advice from the list, which he tried to follow. Not his fault
>it didn't work, as it was incomplete. Please, give it a rest, I think we all
>have learned from this.

>

>I have to agree with bob on this one. Given that I was one of the advice
givers, I feel obliged to jump into this and say: what are we going to do
about this problem.

My working life is based in the computer software industry and in data/fax
software in particular. I have been responsible for the technical support
and documentation of email software for PC's and so I have seen what they
are capable of.

Many people have pointed out that the standards for the attachment and
conversion of files is not fixed. We have MIME, Base64, BinHex, and others.
But so too do we have many different methods of communication in HAM radio,
but we are able to communicate due to having agreed on when and where a
particular method is to be used.

There is a lot of potential for sophisticated communications on the Internet and it would be a shame for us to miss out on this. So what I am asking here is for a small but important dialog that will allow us to develop an agreed upon standard for sharing graphics (e.g. schematic diagrams or even pictures).

Frankly, I've been playing with a new digital camera by Logitech that makes great JPEG output files that is about the same price as a good 35mm camera. Others will be appearing too. I'd love to be able to share pictures of my equipment, events, and projects in this group by attaching these small (10k-15k) files to these emails. likewise I would also like to be able to attach other files from word processors, graphic's project, and such. The point would be to be able to expand the type of information that can be shared.

If there are any others out there who share this interest and would like to share their ideas on this (or even info on why attachments are not a good idea) please email me.

=====
* Joseph Cooper-VE3FMQ QTH-East York-near Toronto Ontario Canada *
* Interests are:- BCB and VLF Radio-Woodworking-Steam Railroads - *
* -Nikola Tesla-Antique Radios-Crystal Radios-Travel-Burmese Cats *
* FAX (416) 423-7782 9:00pm to 5:00pm EDST Monday To Friday Only *

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Steve.hideg.1@nd.edu (Steve Hideg)
Subject: [3712] Re: Loop Antenna
Message-ID: <v02130502ac96e3cbd6d2@[129.74.35.16]>

At 7:55 AM 10/3/95, Joseph Cooper wrote:

>So what I am asking here
>is for a small but important dialog that will allow us to develop an agreed
>upon standard for sharing graphics (e.g. schematic diagrams or even pictures).
>

>Frankly, I've been playing with a new digital camera by Logitech that makes
>great JPEG output files that is about the same price as a good 35mm camera.
>Others will be appearing too. I'd love to be able to share pictures of my
>equipment, events, and projects in this group by attaching these small
>(10k-15k) files to these emails. likewise I would also like to be able to
>attach other files from word processors, graphic's project, and such. The
>point would be to be able to expand the type of information that can be
>shared.

>

>If there are any others out there who share this interest and would like to

>share their ideas on this (or even info on why attachments are not a good
>idea) please email me.

It is not considered proper "netiquette" to send attached files to a mailing list. Many people pay great amounts of money per minute for their connection time. Sending a file to a mailing list often forces a person to download such a file, whether they want it or not.

Please don't send attached files to mailing lists.

I suggest that we use file repositories like ftp.lehigh.edu and qrp.cc.nd.edu. You can log in anonymously to ftp.lehigh.edu and place stuff in the incoming directory. You can also log into qrp.cc.nd.edu as 'qrp' with the password of '72' and place files in the qrp directory.

qrp.cc.nd.edu would be a great place to upload pictures you want shared on the net. I have a section on the QRP-L resource page (at that site) devoted to pictures from QRP-L members. I have had only one person (WB8YGG) ever upload any pictures.

Check out the QRP-L Resource Page at <http://qrp.cc.nd.edu>

73

--Steve

Steve Hideg Macintosh Consultant/Analyst

Office of University Computing	Telephone: (219) 631-EXAM
G034 Computing Center/Math Building	E-mail: Steve.Hideg.1@nd.edu
University of Notre Dame	URL: http://www.nd.edu/~shideg/
Notre Dame, IN 46556	Ham Radio: N8HSC/9

The road to Enlightenment is long and difficult.
(So bring snacks and a magazine.)

From qrp-l@lehigh.edu Tue Oct 3 10:27:00 1995
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [3680] Re: QRP ARCI BoD Elections coming soon
Message-ID: <Pine.SUN.3.90.951002100136.1009A-100000@vortex>

Hi Clay,

The nominating committee is to nominate 2 candidates for each position. The committee will look at the recommendations sent in by the membership and make their choices.

The Jan issue will have a ballot for the use of the members in voting.

I don't have a copy of the bylaws here with me, but maybe I should publish that in the Jan issue also.

Any recommendations need to be sent in soon. Deadline for all the information to get to me is the 17th of Nov. I see no reason why a person could not recommend themselves. Send any and all recommendations to Buck.

Anyone planning to be on the ballot will need to have a little "resume" to me by the 17 of Nov. 250 words max.

Buck is the one to give the best answers to this question.

Hope this helps clear the water! cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
...ku7y@sage.dri.edu.....Sun Valley, Nevada....
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: "John F. Woods" <jfw@jfwhome.funhouse.com>
Subject: [3681] Re: QRP ARCI BoD Elections coming soon
Message-ID: <199510021719.NAA06992@jfwhome.funhouse.com>

> > Anyone interested in running
> > should send their self-nominations as detailed in the issue. (By the
> > way, you don't sit around and wait for someone to nominate
> > you--"nomination" is a misnomer, as it's actually more along the
> > lines of tossing your hat in the ring.)

> On 2 Oct 1995 10:37:18 EDT From: Monte Stark <ku7y@sage.dri.edu> writes:

> > election for the BoD. In that notice it states that the
> > bylaws call for the president to form a nominating committee
> > that will nominate the candidates for the BoD.

> Sorry I don't have a copy of the Oct ARCI QRP Journal. Anyway
> at first glance these two posts do not seem to be harmonious.

I don't have a copy of the bylaws, either, but these aren't necessarily in contradiction. Many organizations have a nominating committee which nominates a set of candidates for Board of Directors, but these are not the *only* candidates -- these are just the current management's candidates. The membership then chooses from the entire pool of BoD candidates.

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [3671] Re: QRP ARCI BoD elections soon
Message-ID: <Pine.SUN.3.90.951002073104.374B-100000@vortex>

Hi Mike and all,

In the Oct issue there is a notice about the upcoming election for the BoD. In that notice it states that the bylaws call for the president to form a nominating committee that will nominate the candidates for the BoD.

The members are encouraged to make suggestions to the nominating committee.

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
...ku7y@sage.dri.edu.....Sun Valley, Nevada....
.....ARRL.....NorCal #330.....NRA LIFE.....

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: Simon Buxton <sbuxton@ccf.health.nsw.gov.au>
Subject: [3698] Re: QRP with IC735
Message-ID: <Pine.PMDF.3.91.951003083917.538969250A-100000@health.nsw.gov.au>

Jim,

Thanks for the additional ideas for QRP on this rig. I think the main advantages of my original suggestion are that full 100w QRO is still possible and it obviates the need to open up the rig. The IC731 is my main rig, so I want to maintain all options, not just QRP. The snag is, of

course, having an external box.

73 Simon

```
*****
Simon Buxton           VK2EII           Sydney, Australia
E-mail : sbuxton@ccf.health.nsw.gov.au   Compuserve :100352,1612
*****
```

From qrp-1@lehigh.edu Tue Oct 3 10:27:00 1995
From: burdick@interval.com (Wayne Burdick)
Subject: [3701] Re: The ultimate QRP kit building experience
Message-ID: <v02130514ac963a892cdc@[199.170.106.28]>

Byron,

>I'm kinda surprised, with all the electronics floating around, that QRP rigs
>aren't any more "solid state" than they are. Why dont we see more LCD freq
>displays on rigs, maybe even a digital LCD S-meter. Do they generate so much
>noise or is it the cost factor.

The overall answer is: cost, and noise, which in turn generates more cost
because you usually need shielding if you add digital hardware.

In a typical small-business kit rig, the retail cost is only about 2:1
compared to the cost of parts. Business overhead accounts for another big
chunk, leaving the propretor of the small ham business with very little
profit. So costs like these add up:

* An LCD freq. counter with driver and misc. hardware would add about \$30
to \$50 to the retail cost, not counting possible shielding, and would
complicate both kitting and assembly.

* Digital S-meter, etc., requires a more complicated display, more analog
interface components, probably a small microprocessor, and therefore around
another \$20 to the retail cost over and above the LCD/counter alone. Now
you probably need to sheild parts of the receiver (or suffer some birdies),
adding another \$10 to \$15 in metal parts.

* Frequency synthesis, whether PLL or DDS, adds \$20 to \$80 to the retail
cost, not counting any needed shielding, partly because of the rotary
encoder (or DIP switches, which I still don't see on any rig used for
casual operating on a non-channelized band). These costs are partly offset
by the elimination of individual crystals in a premixer. However, the

current drain is generally much higher, up to an extra 200mA for a DDS rig.

What you're looking at with, for example, the Sierra or OHR 4-bander, is near state-of-the-art for cost reduction as a low-volume commercial kit. The Cascade is a better bargain, but don't forget that *no one* made a dime off of it--it was priced on the hairy edge of reasonable, even for a club project!

Nope, we're not going to see really cheap, digital, multiband, super-kit transcievers until someone pays the \$\$\$\$ of tooling charges to do a one-chip transceiver and digital control unit. And the market's too small to justify it! (Well, I suppose some big DDS/micro hybrids will fall out of the high-volume cellular market that may be applicable; we'll see.)

Thanks for asking.

73,
Wayne
N6KR

From qrp-l@lehigh.edu Tue Oct 3 10:27:00 1995

From: "rohre" <rohre@arlut.utexas.edu>

Subject: [3693] RE: TT SCOUT PROBLEM

1

Message-ID: <n1399474735.69085@msmailgw1.arlut.utexas.edu>

Sorry you had a problem with that juicy DX! (Where is that anyway?)

But, cutting to the chase; 25 is the keyer speed default read out; were you accidentally bumping the switch that puts you in the mode to set the keyer speed? For that sounds like what you got into. I sometimes have things on my operating table, and I am amazed I don't do this myself, but I keep My Scout tilted back on its wire bail, so the switches are elevated off the table. I know when you are in keyer speed set mode, you do not transmit; it just allows you to hear side tone, as you send either dots or dashes to slow the keyer speed up or down. Now if you are sure the paddle, or log, or whatever did not brush the switch into the speed set mode; then you must have had something else cause it. Make sure the band module is seated all the way; normally, if it does not seat it will give a readout, which is in the manual, alerting you. As far as I know, there are no numerical error codes given by the display, only ERR, (I think), all zeroes, or the keyer speed setting in wpm.

Check tightness of power supply plugs and all connections. If you lose power, the speed goes to 25. Check the power supply for correct voltage on key down. Open the lid and push down on all plug in circuits, and the coaxes that plugs into them. The usual checks, starting with power supply, and making sure connections are tight. Try an alternate power supply or battery. Are you using the power leads they supplied? Are you using an antenna that would have high SWR? What does the built in SWR meter say? That should not be the cause of this readout, but you have both power out and SWR available by switch selection. I find the SWR meter to be pretty close on the Scout to my independent one, maybe better.

If nothing so obvious as I am postulating is doing it; then a call to Ten Tec will speedily get you a replacement card or cards for the necessary fixes. It may not need to go back to them at all. I have never had this or any problems, really, except to anticipate more of the "Noise Blanker" than any of them, Yaecomwood included, do today with the poor band conditions.

A satisfied Scout owner,
Stuart K5KVH

From qrp-l@lehigh.edu Tue Oct 3 10:27:00 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [3691] RE: Wire antenna help...?
Message-ID: <n1399476021.91460@msmailgw1.arlut.utexas.edu>

This one is a challenge, but not impossible.

One option, is a flag pole vertical out in your yard. I would make it by a method I have wanted to try, to see if it gave better results than conventional ground mounted verticals. That is, a new twist on elevated feed for a vertical, and that would be a 33 foot, top fed flagpole vertical, sitting on 8 or 16 foot bottom section, to get the high impedance end away from ground. I would even say you could have the high impedance end a couple of feet off ground if you had to. The coax would be buried in pvc conduit, and go across the yard, then up the inside of the vertical to the top. Weather proof the top with a cap. Could be something like an eagle say, and fly a flag on the thing for camouflage. You would need to make the whole flagpole of PVC, with a wire element inside, or try to get light weight aluminum for the element to sit on a heavy wall PVC bottom insulating tube. Of course use radials buried around the base. If that is not doable, a ground mounted vertical of pipe or tubing will work, just you HAVE to put more radials to make it work as well as elevated verticals. Again you make it look like a flagpole. Who could object to being patriotic?

Now, if you still want to go the wire route, I would use one of those dormer

windows, and bring coax just on the outside of it, going thru the window frame. Then you mount an insulator inconspicuously, to the center connection of a wire dipole. You use thin wire stapled under the eaves of the house, following all the contours, and you make it go around the perimeter of the house. You could use insulated staples like they do for phone wire, etc. or just use small gauge insulated wire stapled directly to the wire.

You are using QRP, correct? And of course a tuner? Keep the coax short and there should be no problem matching it, and the losses won't be much of a problem, if you have the dipole as high as possible, like on a two story house. Pick wire insulation the same color as your house, or paint it as a last resort.

Now, from your post, you seem to think balanced line would not work because you have a metal frame window, but actually, at forty meters, you could pass such at right angles with little effect, but the trick is how to conceal the twin lead, or open wire line up to a dipole feed point. It is actually the lowest loss, and best way to feed such a dipole that must have tuned feed anyway. Ideally, open wire line or twin lead is twisted every couple feet to cancel any coupling to metal nearby. Again, though, at 40 Meters, there is not going to be much in the way of wavelength about a window frame, so it won't cause a problem. Even if you seemed to get some effect, changing the length of the line will move the voltage node, and the problem should be no more. Strictly because coax is more easily concealed, it might be the way to go in this case. On the run that must be outdoors, you could use the small diameter RG 174 50 ohm coax, and it would be possible to conceal it if your house is brown like the teflon versions of 174 which are available. For a short run, you could even paint it, but this will affect the plastic, but the field is contained between the INSIDE of the shield and the center wire, so this is more a materials compatibility issue about the paint's effect on the outer vinyl sheath. 174 is only 0.060 inch outer diameter, and is rated to 1100 VOLTS RMS! Certainly it is good up to 100 watts, then. The loss is 3.3 dB per 100 feet at 10 M Hz, and somewhat less at 40 M, but you could transition at the window entry to larger cable to the rig, to minimize the length of 174 used, (or its brown cousin, RG 142.) Now the interesting thing is, the teflon 142 is about 0.1 inch, slightly larger diameter and is higher loss at 10 M Hz. (5+ dB!) RG 174 is black, and lower loss and non teflon. All this from the Belden catalog.

As to the staples on the cedar, I doubt the dimensions of them look like much of a fraction of wavelength at 40M! They may add some capacitance loading, but maybe that will only add or subtract from the dipole length to shift the resonant point. What you can do is first make a dipole by standard formula for ten meters, see where it resonates compared to the frequency you use in the formula. That will give you the percentage correction, longer or shorter to use, approximately at 40 M. It should be close enough to still put you in the end of the band you want.

Well, you should try it none the less, and let us know the DX you work!
73, Stuart K5KVH